

Work Order ID 141810

Tuesday, February 16, 2016 7:39:53 AM

141810

Ship Feb 24

Page 1

Item ID: 647.1703

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Skid Deflector Assembly

Start Date: 2/16/2016 Start Qty: 1.00

Required Date: 2/23/2016 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: MJS

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date: FEB 16 2016

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

647.1700

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

0.00

120

Small Fab

Memo

0.00

Small Fab

1- Assemble item 4,6,7 and 8 as per dwg.

2- Clamp item 1 and 2 to item 3. Transfer drill holes as per dwg see note 6. Use clecos.

3- Disassemble parts

4- Deburr

5- Touch up expose aluminum with alodine

6- Re-assemble as per dwg

DAS
36
9-89DAS
36
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																																																																																											
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Work Order ID 141810

Tuesday, February 16, 2016 7:39:53 AM

141810

Page 2

Item ID: 647.1703

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Skid Deflector Assembly

Start Date: 2/16/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/23/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC5- Inspect part completeness to step on W/O

0.00

130

QC

Memo

0.00

Quality Control

DAS
38
9-89
MAR 03 2016

170

0.00

170

SprayPaint

Memo

0.00

Spray Painting

***TOUCH UP WITH PRIMER ***

PRIMER BATCH: 133399DAS
41
9-89

16-3-3

180

QC14- Inspect Spray Paint

0.00

180

QC

Memo

0.00

Quality Control

DAS
38
9-89
MAR 04 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 141810

141810

Page 3

Tuesday, February 16, 2016 7:39:53 AM

Item ID: 647.1703

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Skid Deflector Assembly

Start Date: 2/16/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/23/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

190

0.00

190

Small Fab

Memo

ASSEMBLE AS PER DWG

0.00

DAS
38
9-89

Small Fab

200

0.00

200

QC

QC5- Inspect part completeness to step on W/O

Memo

0.00

DAS
38
9-89

Quality Control

210

0.00

210

Packaging

Identify as per dwg & Stock Location SCROYS

Memo

0.00

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

Packaging

2 DAS
6
9-89

MAR 04 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
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Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 141810

Tuesday, February 16, 2016 7:39:53 AM

141810

Page 4

Item ID: 647.1703

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Skid Deflector Assembly

Start Date: 2/16/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/23/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursTool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

220

QC21- Final Inspection - Work Order Release

0.00

220

QC

Memo

0.00

Quality Control

16
9-89
16/03/04
unf
16-3-4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Tuesday, February 16, 2016 7:39:59 AM

Page 1

Work Order ID: 141810

141810

Parent Item: 647.1703

647 1703

Parent Item Name: Skid Deflector Assembly

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A NEW ISSUE 15-06-09 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

647.1713		Manufactured	No				Each	39.0000		1			
647 1713 Spacer ** 16/03/03 DAS 36 9-89													

Location	Loc Qty	Loc Code
CCK108	39	
104845	36	
99057	3	

601.1915	CR3213-4-4	Purchased	No				Each	0.0000		22			
601 1915 Rivet (CR3213-4-4) ** 16/03/03 DAS 36 9-89													

601.1607	NAS1149F0332P	Purchased	No				Each	19.0000		2			
601 1607 Washer (NAS1149F0332P) ** 16/03/03 DAS 36 9-89													

Location	Loc Qty	Loc Code
ST522	19	
m123185	19	

MS21042-3	MS21042L3	Purchased	No				Each	18.0000		1			
MS21042-3 Nut / use MS21042L3 ** 16/03/03 DAS 36 9-89													

Location	Loc Qty	Loc Code
ST304	18	
M129682	18	

601.1622	MS27039-1-14	Purchased	No				Each	0.0000		1			
601 1622 Screw (MS27039-1-14) ** 16/03/03 DAS 36 9-89													

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

Picklist Print

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Page 2

Work Order ID: 141810

141810

Parent Item: 647.1703

647 1703

Parent Item Name: Skid Deflector Assembly

Start Date: 2/16/2016

Required Date: 2/23/2016

Start Qty: 1.00

Required Qty: 1.00

647.1716 Manufactured No

Each 0.0000 1

647 1716

Plate

647.1717 Manufactured No

Each 0.0000 1

647 1717

Plate

647.1718 Manufactured No

Each 0.0000 1

647 1718

Gusset

B141812 (2x) **

B141813 (2x) **

B 141920 ** (2)

16/03/03
DAS
36
9-89

16/03/03
DAS
36
9-89

16/03/03
DAS
36
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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NOTES:

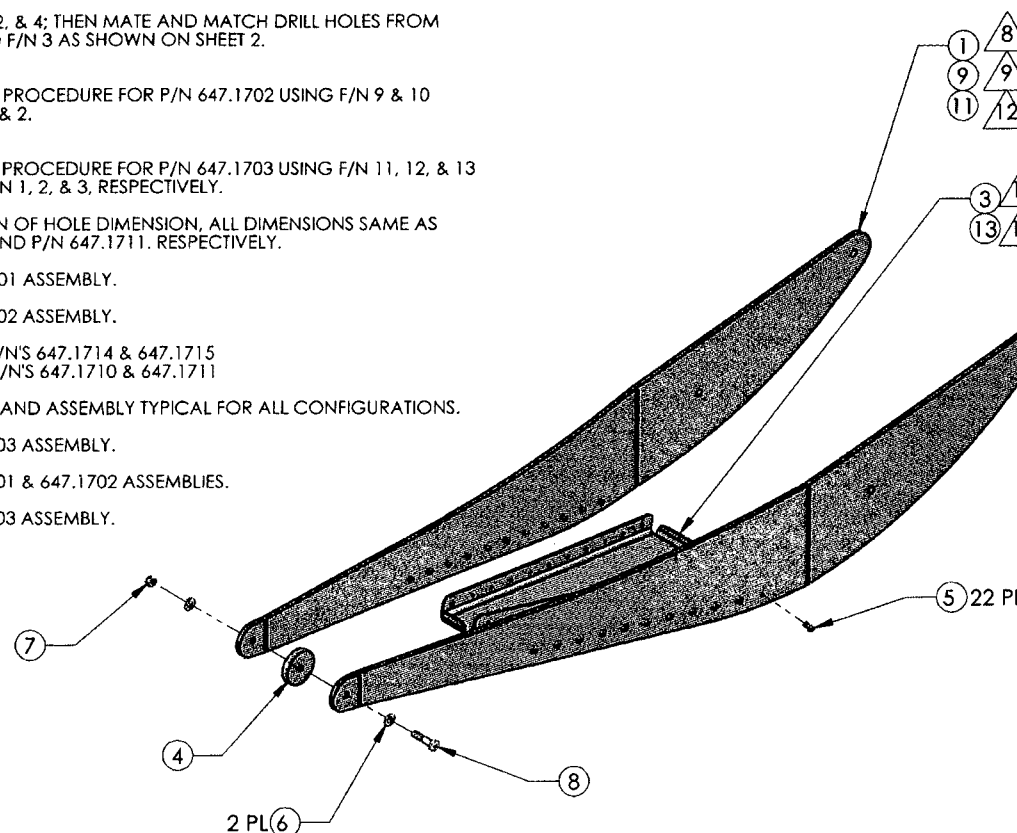
- 1 MATERIAL: 7075-T6 ALUMINUM PER AMS-QQ-A-250/12.
- 2 MATERIAL: 6061-T6 ALUMINUM BAR IAW AMS-QQ-A-250/11.
- 3 FINISH IAW MPP-172, SECTIONS 2.1, 3.1, & 4.2.
4. DEBURR AND BREAK ALL SHARP EDGES.
5. IDENTIFY IAW MPP-120.
- 6 P/N 647.1701:
CLAMP F/N 1, 2, & 4; THEN MATE AND MATCH DRILL HOLES FROM F/N 1 & 2 ONTO F/N 3 AS SHOWN ON SHEET 2.
- P/N 647.1702:
FOLLOW SAME PROCEDURE FOR P/N 647.1702 USING F/N 9 & 10 IN PLACE OF 1 & 2.
- P/N 647.1703:
FOLLOW SAME PROCEDURE FOR P/N 647.1703 USING F/N 11, 12, & 13 IN PLACE OF F/N 1, 2, & 3, RESPECTIVELY.
- 7 WITH EXCEPTION OF HOLE DIMENSION, ALL DIMENSIONS SAME AS P/N 647.1710 AND P/N 647.1711. RESPECTIVELY.
- 8 FOR P/N 647.1701 ASSEMBLY.
- 9 FOR P/N 647.1702 ASSEMBLY.
- 10 .323" DIA FOR P/N'S 647.1714 & 647.1715
.257" DIA FOR P/N'S 647.1710 & 647.1711
- 11 RIVET SPACING AND ASSEMBLY TYPICAL FOR ALL CONFIGURATIONS.
- 12 FOR P/N 647.1703 ASSEMBLY.
- 13 FOR P/N 647.1701 & 647.1702 ASSEMBLIES.
- 14 FOR P/N 647.1703 ASSEMBLY.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR2		N/C
N/C	INITIAL RELEASE	08/03/09	P. BRAVO
A	INCORPORATED ECN'S 02937 & 03921	06/07/13	P. BRAVO
B	INCORPORATED ECN 03970	07/03/13	P. BRAVO
C	INCORPORATED ECN 04038	08/14/13	P. BRAVO
D	INCORPORATED ECN'S 04679, 04702 & 04964	05/29/15	P. BRAVO

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WITHOUT NOTICE
WORK ORDER

NO. 191810 HLTJ

16-02-16



1			13	647.1718	GUSSET			
1			12	647.1717	PLATE			
1			11	647.1716	PLATE			
	1		10	647.1715	PLATE			
	1		9	647.1714	PLATE			
1	1	1	8	601.1622	SCREW	MS27039-1-14		
1	1	1	7	601.2943	LOCKNUT	MS21042-3		
2	2	2	6	601.1607	WASHER	NAS1149F0332P		
22	22	22	5	601.1915	RIVET	CR3213-4-4		
1	1	1	4	647.1713	SPACER			
	1	1	3	647.1712	GUSSET			
		1	2	647.1711	PLATE			
		1	1	647.1710	PLATE			
X				647.1703	SKID DEFLECTOR ASSY			
	X			647.1702	SKID DEFLECTOR ASSY			
		X		647.1701	SKID DEFLECTOR ASSY			
.1703	.1702	.1701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	

QTY		NEXT ASSY (S)		ORIGINAL DATE		DRAWN BY		CHECKED BY		DATE	
		647.1300		J. GARDNER		P. BRAVO		08/03/09			
				DRAWING APPROVAL		P. BRAVO		08/03/09			
				CONTRACTING							
				UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES		TOLERANCES ARE		2 PLACE DECIMALS ± .01	
						3 PLACE DECIMALS ± .005				ANGLES ± .5°	
				SHEET		CAGE CODE		DWG. NO.		REV.	
				B		07M26		647.1700		D	
				SCALE		NONE				SHEET 1 OF 7	

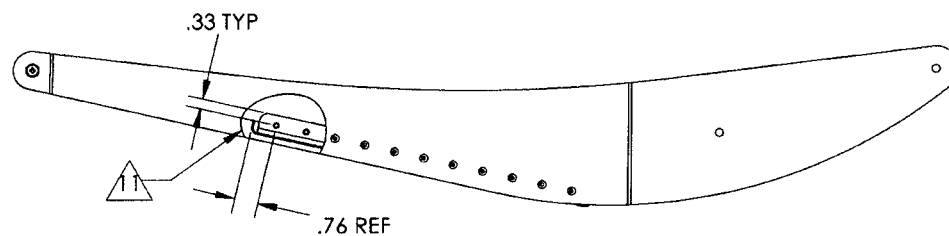
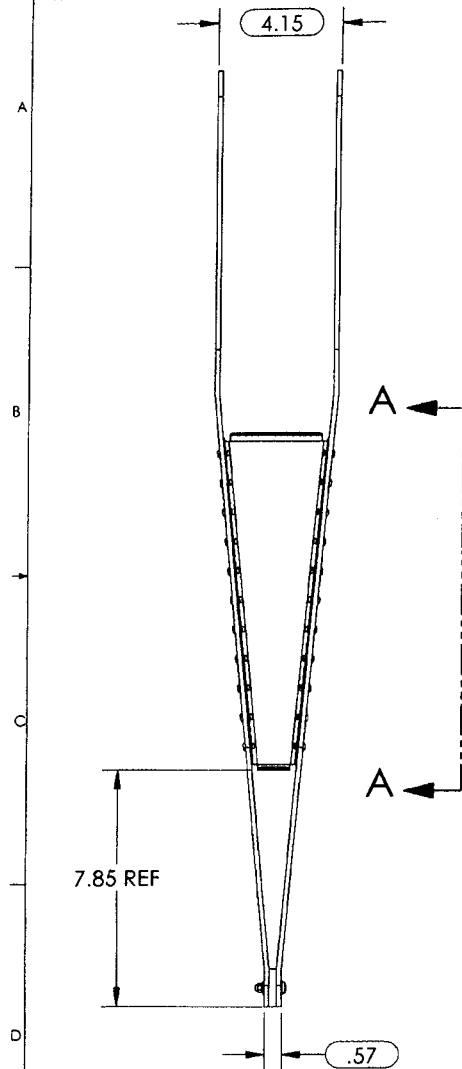
3030 ENTERPRISE CT., SUITE A
VISTA, CA, 92081
(760) 724-5300

DART AEROSPACE
AEROSPACE
AEROSPACE INDUSTRIES, INC.
3030 ENTERPRISE CT., SUITE A
VISTA, CA, 92081
(760) 724-5300

SKID DEFLECTOR ASSY

1 2 3 4 5 6 7 8

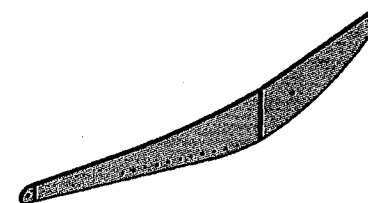
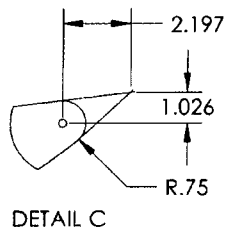
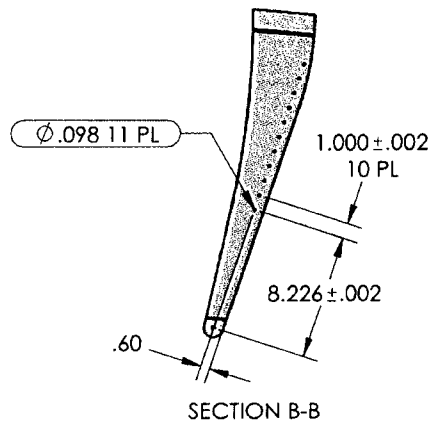
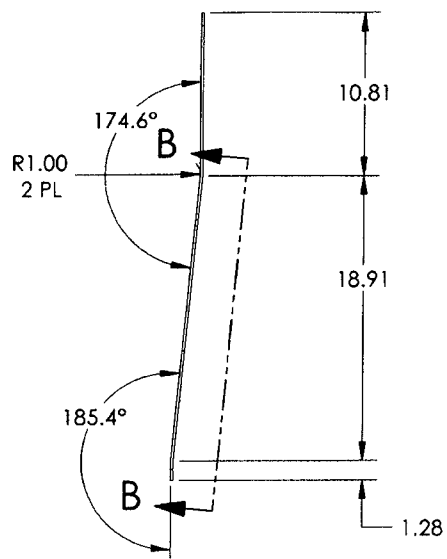
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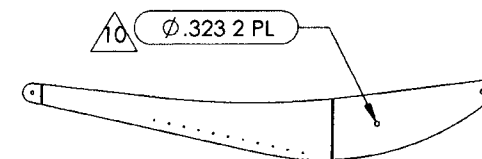
SECTION A-A

ORIGINAL DATE JUN-04-1991 08:05/09		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300	
DRAWN BY J. GARDNER P. BRAVO		DART AEROSPACE	
DRAWING APPROVAL P. BRAVO		AFICAL INDUSTRIES, INC. DBD DART AEROSPACE	
CONTRACT NO.		SKID DEFLECTOR ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.3°	SIZE B	CAGE CODE 07M26	DWG. NO. 647.1700
SCALE NONE		REV D	
		SHEET 2 OF 7	

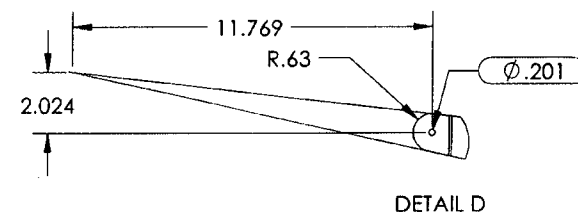
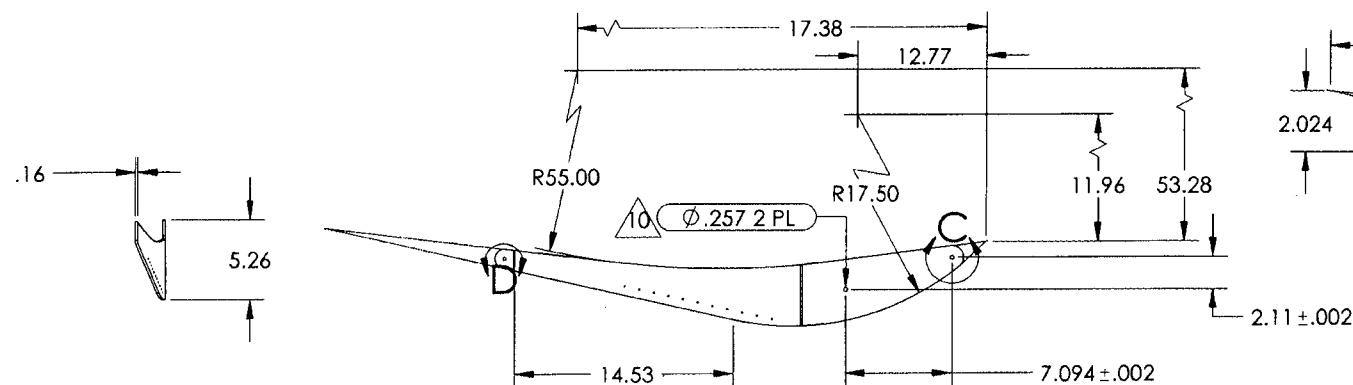
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647.1711 SHOWN
647.1710 OPPOSITE

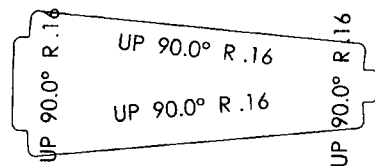
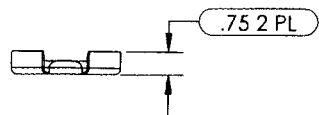
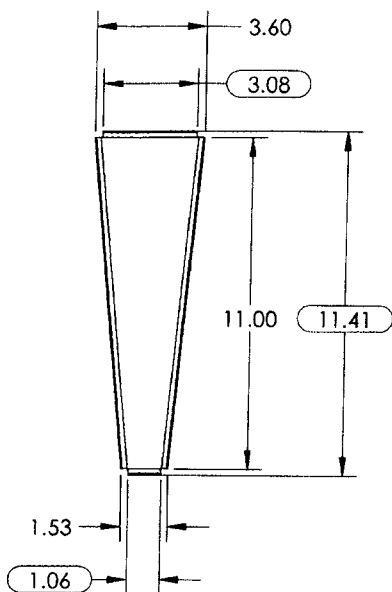


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647.1715 OPPOSITE

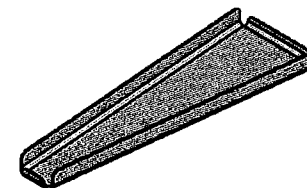
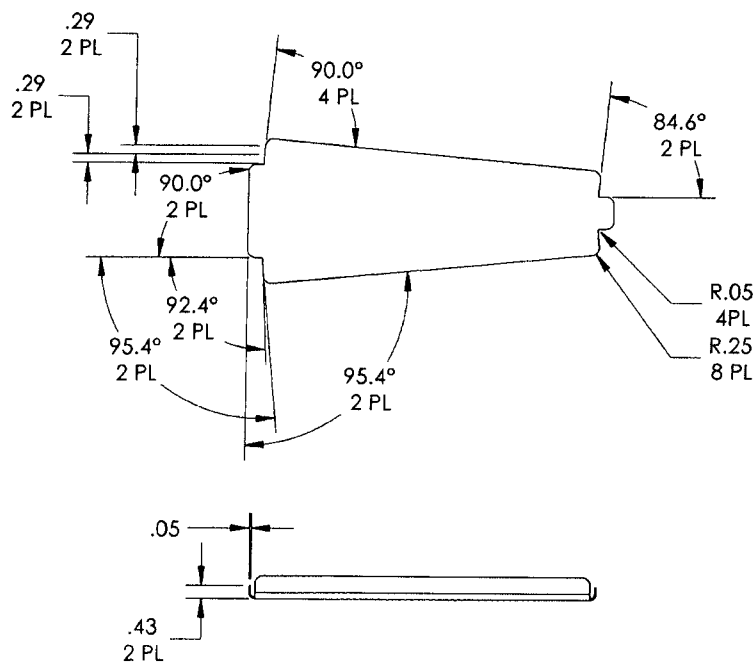


ORIGINAL DATE 1/20/2010		DESIGNER J. GARDNER	
DRAWN BY J. GARDNER		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .005$ 3 PLACE DECIMALS $\pm .001$ ANGLES $\pm .5^\circ$			
DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 691-9108		APCAL INDUSTRIES, INC. 600 DART AEROSPACE	
SKID DEFLECTOR ASSY			
SER 8	CAGE CODE 07M26	DWG. NO. 647.1700	REV. D
SCALE: NONE			SHEET 3 OF 7

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FLAT PATTERN



647.1712

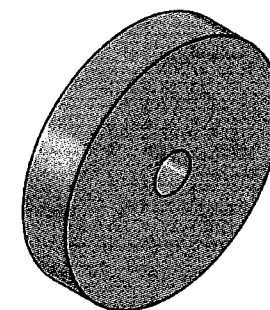
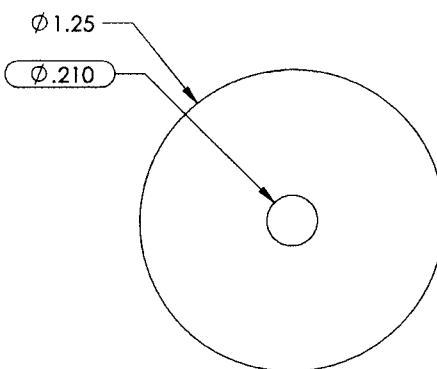
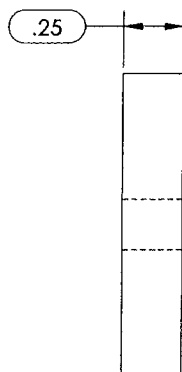
ORIGINAL DATE (MM/DD/YY)		DESIGNER	
DRAWN BY J. GARDNER		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO		 AEROSPACE APICAL INDUSTRIES INC. (aka LUMI AEROSPACE)	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SHEET B	CAGE CODE 07M16	DWG. NO. 647.1700	REV. D
SCALE: NONE		SHEET 4 OF 7	

DART AEROSPACE
3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081
(760) 724-5300

APICAL INDUSTRIES, INC.
DBO DART AEROSPACE

SKID DEFLECTOR ASSY

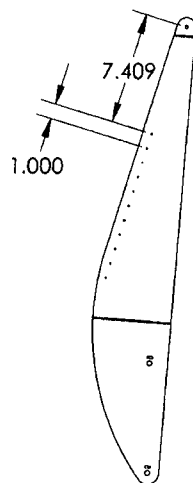
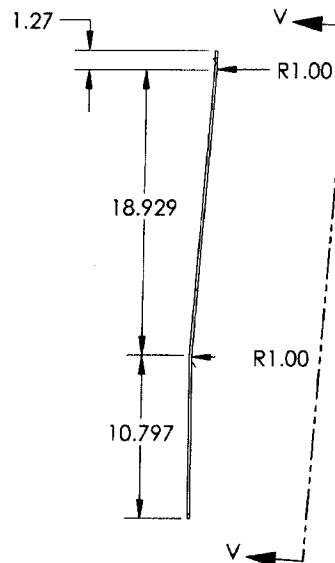
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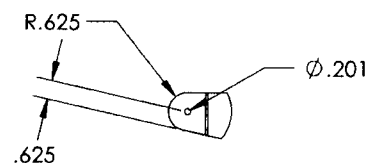
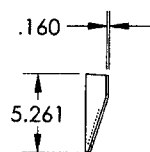
647.1713

ORIGINAL DATE (MM-DD-YY) 08/03/09		3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-5300	
DRAWN BY J. GARDNER	CHECKED P. BRAVO	DART AEROSPACE APICAL INDUSTRIES, INC. (DBA DART AEROSPACE)	
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.		SKID DEFLECTOR ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 ANGLES 9, 30		QTY 1 CAGE CODE B 07M26	DWG. NO. 647.1700 REV. D
SCALE NONE		SHEET 5 OF 7	

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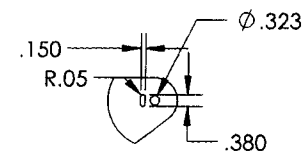


VIEW V-V

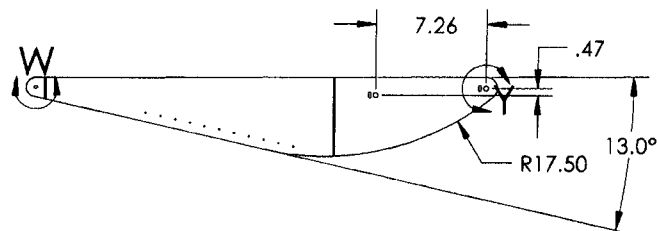


DETAIL W

647.1716 SHOWN
647.1717 OPPOSITE



DETAIL Y
TYP 2 PL

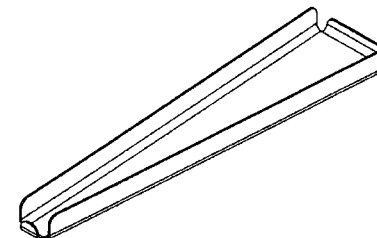
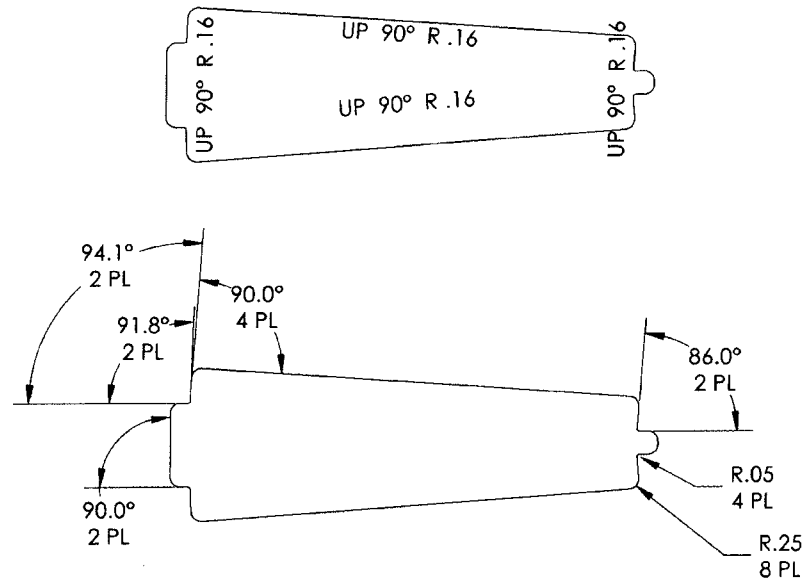
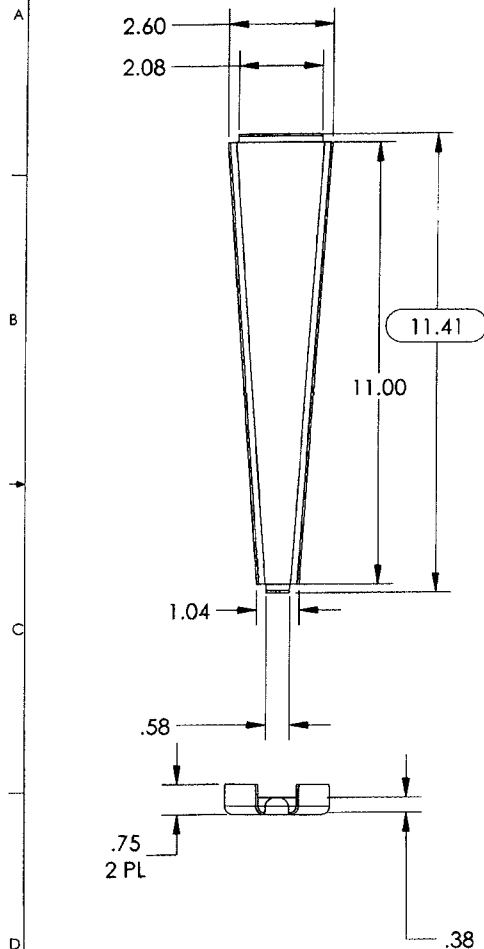


ORIGINAL DATE 08-04-79		08-05-07	
DRAWN BY S. HUFF		CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.			
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SIZE B	CAGE CODE 07M16	CHG. NO. 647.1700	REV. D
SCALE NONE		SHEET 6 OF 7	

DART 3030 ENTERPRISE CT., SUITE A
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APCAL INDUSTRIES, INC. (760) 724-5300
6000 DART AEROSPACE

SKID DEFLECTOR ASSY

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647.1718

ORIGINAL DATE 10/24/77		DESIGN P. BRAVO		3030 ENTERPRISE CT., SUITE A VISTA CA. 92081 (760)724-5300	
DRAWN BY S. HUFF		CHECKER P. BRAVO		DART AEROSPACE	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES INC. CDS DART AEROSPACE		SKID DEFLECTOR ASSY	
CONTRACT NO.		PART NO. 647.1700		REV D	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SCALE NONE		SHEET 7 OF 7	